AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (original) A protein comprising:

   a first functional unit of a first complement regulatory protein, wherein the first functional unit exhibits complement-regulating properties;

   a first spacer sequence of at least about 200 amino acids encoding a polypeptide that does not exhibit complement regulating properties, attached to the first functional unit; and

   a second functional unit attached to the spacer sequence, selected from the group consisting of polypeptides providing a functional unit of a second complement regulatory protein, polypeptides derived from an immunoglobulin, and polypeptides that enhance binding of the protein to an animal cell.

2. (original) The protein of claim 1, additionally comprising a second spacer sequence of at least about 200 amino acids encoding a polypeptide that does not exhibit complement regulating properties attached to the second function domain, and a third functional unit attached to the second spacer, wherein the third functional unit is selected from the group consisting of polypeptides derived from an immunoglobulin, and polypeptides that enhance binding of the protein to an animal cell.

3. (original) The protein of claim 1, wherein the first functional unit comprises at least CCPs 2, 3 and 4 of DAF.

4. (original) The protein of claim 1, wherein the second functional unit is selected from the group consisting of CCPs 8-10 of Complement Receptor 1 (CR1), CCPs 15-17 of CR1, CCPs 1-4 of Membrane Cofactor Protein (MCP), polypeptides derived from IgG4, and a lipid tail.

5. (previously amended) The protein of claim 1, wherein the spacers are selected from the group consisting of substantially all of the amino acids of CCPs 4-7 of CR1, and substantially all of the amino acids of CCPs 11-14 of CR1.

6. (original) The protein of claim 1, wherein the first functional unit comprises CCPs 1, 2, 3 and 4 of DAF, the second functional unit is selected from the group consisting of CCPs 8-10 of CR1, CCPs 1-4 of Membrane Cofactor Protein (MCP), and polypeptides derived from IgG4, and the first spacer is substantially all of the amino acids of CCPs 4-7 of CR1.

7. (original) The protein of claim 6, additionally comprising a second spacer comprising substantially all of the amino acids of CCPs 4-5 of CR1, and a third functional unit selected from the group consisting of CCPs 8-10 of CR1 CCPs 1-4 of MCP, and polypeptides derived from Ig G4.

8. (withdrawn) A polynucleotide encoding the protein of claim 6.

9. (withdrawn) A polynucleotide encoding the protein of claim 7.

10. (withdrawn) A polynucleotide encoding the protein of claim 1.

11. (withdrawn) A vector comprising the polynucleotide of claim 10.

12. (currently amended) A protein having at least 95 percent sequence homology to a protein selected from the group consisting of proteins having the sequence of ~~SEQ.~~ SEQ ID NO: 13, ~~SEQ.~~ SEQ ID NO: 15, ~~SEQ.~~ SEQ ID NO: 19, and ~~SEQ.~~ SEQ ID NO: 23.

13. (withdrawn, previously presented) A polynucleotide encoding the protein of claim 12.

14. (original) A method of regulating complement activity comprising administering an effective amount of protein of claim 1 to a mammal.

15. (currently amended) The method of claim [[15]] 14, wherein the mammal is a human.

16. (previously presented) The protein of claim 2, wherein the spacers are selected from the group consisting of substantially all of the amino acids of CCPs 4-7 of CR1, and substantially all of the amino acids of CCPs 11-14 of CR1.

17. (previously presented) The protein of claim 3, wherein the spacers are selected from the group consisting of substantially all of the amino acids of CCPs 4-7 of CR1, and substantially all of the amino acids of CCPs 11-14 of CR1.

18. (previously presented) The protein of claim 4, wherein the spacers are selected from the group consisting of substantially all of the amino acids of CCPs 4-7 of CR1, and substantially all of the amino acids of CCPs 11-14 of CR1.